LISTING OF CLAIMS

1-5. (Cancelled)

6. (New) Coriolis mass flow sensor for measuring a fluid flowing through a pipe, said sensor comprising:

a first tube for conducting the fluid to be measured, said first tube having a single substantially V-shaped tube segment with an inlet-side straight tube portion and an outlet-side straight tube portion, said straight tube portions being in connection via a vertex bend portion of said first tube segment, said V-shaped tube segment being coupled to the pipe during operation;

a second tube having a single substantially V-shaped tube segment with an inlet-side straight portion and an outlet-side straight portion, said straight portions being in connection via a vertex bend portion of said second tube segment;

wherein said first and said second tubes are coupled mechanically with each other at an inlet-side location and an outlet-side location, respectively;

an excitation arrangement coupled to said first and said second tubes for vibrating said first and said second tubes; and

a sensor arrangement coupled to said first and said second tubes for detecting inlet-side and outlet-side vibrations of at least one of the tubes.

7. (New) The Coriolis mass flow sensor as claimed in claim 6 wherein the V-shaped tube segment being coupled to the pipe via an inlet-side tube segment and an outlet-side tube segment, respectively.

8. (New) The Coriolis mass flow sensor as claimed in claim 7 wherein a straight portion of said inlet-side tube segment and a straight portion of said outlet-side tube segment are aligned to each other.

9. (New) The Coriolis mass flow sensor as claimed in claim 6 wherein the second tube having an inlet-side tube segment being connected with the V-shaped tube segment via whose inlet-side straight tube portion and an outlet-side tube segment being connected with the V-shaped tube segment via whose outlet-side straight tube portion.

10. (New) The Coriolis mass flow sensor as claimed in claim 9 comprising an inlet-side manifold fixed to said inlet-side tube segments of the first and second tubes and an outlet-side manifold fixed to said outlet-side tube segments of the first and second tubes.

11. (New) The Coriolis mass flow sensor as claimed in claim 9 wherein the first and second tubes are shaped in an identical manner.

12. (New) The Coriolis mass flow sensor as claimed in claim 6 comprising a first node plate affixed to each of the tubes at said inlet-side location and a second node plate affixed to each of the tubes at said outlet-side location.

13. (New) The Coriolis mass flow sensor as claimed in claim 12 wherein the first node plate is affixed to said inlet-side straight tube portions of the first and the second tubes and the second node plate is affixed to said outlet-side straight tube portions of the first and the second tubes.

14. (New) The Coriolis mass flow sensor as claimed in claim 9 wherein the first node plate is affixed to said inlet-side tube segments of the first and second tube sand the second node plate is affixed to said outlet-side tube segments of the first and second tubes.

15. (New) The Coriolis mass flow sensor as claimed in claim 12 wherein the first node plate is affixed to said inlet-side tube segments of the first and second tube sand the second node plate is affixed to said outlet-side tube segments of the first and second tubes.

16. (New) The Coriolis mass flow sensor as claimed in claim 6 comprising a support frame, said support frame being coupled to said inlet-side tube segment and said outlet-side tube segment of the first tube.

17. (New) The Coriolis mass flow sensor as claimed in claim 10 wherein the support frame is affixed to the inlet-side and the outlet-side manifolds.

18. (New) The Coriolis mass flow sensor as claimed in claim 15 wherein the support frame is affixed to the inlet-side and the outlet-side manifolds.

19. (New) A support frame of a Coriolis mass flow sensor for measuring a fluid flowing through a pipe, said sensor having at least one bent measuring tube within the support frame being connectable to said pipe for conducting the fluid to be measured, wherein the support frame comprises:

a substantially plane inlet-side frame portion and a substantially plane outlet-side frame portion, both frame portions being disposed opposite to each other;

a substantially plane feedthrough frame portion having a feedthrough and connecting

said inlet-side frame portion and said outlet-side frame portion with each other;

a bent vertex frame portion being connected to said inlet-side frame portion and said outlet-side frame portion and being disposed opposite to said feedthrough frame portion;

wherein the at least one measuring tube is fixed to said inlet-side and said outlet-side frame portions.

20. (New) The support frame as claimed in claim 19 wherein each one of the inlet-side frame portion, the outlet-side frame portion, the feedthrough frame portion, and the bent vertex frame portion having the same width.

21. (New) The support frame as claimed in claim 19 wherein each one of the inlet-side frame portion, the outlet-side frame portion, the feedthrough frame portion, and the bent vertex frame portion having the same thickness.

22. (New) The support frame as claimed in claim 19 wherein an inlet-side manifold is affixed to the inlet-side frame portion and an outlet-side manifold is affixed to the outlet-side frame portion, and wherein each one of a first bent measuring tube and a second bent measuring tube each being connected with said manifolds.

23. (New) The support frame as claimed in claim 19 being supplemented by a front sheet and a rear sheet, said front sheet being affixed to the support frame at a first face of the support frame and said rear sheet being affixed to the support frame at a second face of the support frame.